

ASNT Nashville conference abstract

COMPUTED TOMOGRAPHY INSPECTION AND ANALYSIS FOR ADDITIVE MANUFACTURING COMPONENTS

Ronald D. Beshears, Ph.D.

NASA MSFC NDE Team

(256) 544-2550

ron.beshears@msfc.nasa.gov

Computed tomography (CT) inspection was performed on test articles additively manufactured from metallic materials. Metallic AM and machined wrought alloy test articles with programmed flaws and geometric features were inspected using a 2MeV linear accelerator based CT system. Performance of CT inspection on identically configured wrought and AM components and programmed flaws was assessed to determine the impact of additive manufacturing on inspectability of objects with complex geometries.